

**Amendments to the Claims:**

This listing of claims will replace all prior version, and listings, of claims in the application.

**Listing of Claims:**

1. (Cancelled)
2. (Currently Amended) The method of claim 23, wherein ~~step b)~~ further comprises allowing another system of the plurality of systems to retain the plurality of locks of the at least one system the predefined plurality of processor resources does not include a processor resource utilized to enable the first database management system to accept new work.
3. (Currently Amended) The method of claim 23, wherein the plurality of operating systems sharing processor resources are logically grouped together and operate in tandem with one another. ~~step e)~~ further comprises:
  - e1) ~~allowing another system of the plurality of systems to restart the at least one system;~~
  - e2) ~~recovering data being protected by the retained locks of the at least one system utilizing only the shared processor resources of the another system determined to be necessary for performing the restart operation; and~~
  - e3) ~~allowing the at least one system to terminate in a normal fashion.~~
4. (Cancelled)

5. (Currently Amended) The method of claim ~~[[3]]~~ 23, further comprising shutting down the first database management system responsive to recovery of the inconsistent data and restoring full lock granting protocols throughout the shared system environment, wherein step e1) further comprises:

~~e1i) — providing a request to restart the at least one system;~~

~~e1ii) — allowing the another system to detect the request; and~~

~~e1iii) — allowing the another system to restart the at least one system based on the request,~~

~~utilizing only the shared processor resources determined to be necessary for performing the restart operation.~~

6. (Currently Amended) The method of claim 23, wherein the plurality of data locks comprise a plurality of data update mode locks.

7. (Cancelled)

8. (Currently Amended) The system of claim 24, wherein the predefined plurality of processor resources does not include a processor resource utilized to enable the first database management system to accept new work, means for retaining the plurality of locks further comprises means for allowing another computer system to retain the plurality of locks held by the at least one computer system.

9. (Currently Amended) The system of claim ~~[[8]]~~ 24, wherein the plurality of operating systems sharing processor resources are logically grouped together and operate in tandem with one another, means for restarting the at least one computer system further comprises:

~~means for allowing the another computer system to restart the at least one computer system;~~

~~means for recovering the data being protected by the retained locks held by the at least one computer system using only the shared processor resources determined to be necessary for recovering the data; and~~

~~means for allowing the at least one computer system to terminate in a normal fashion after recovering the data;~~

10. (Cancelled)

11. (Currently Amended) The system of claim ~~[[9]]~~ 24, further comprising means for shutting down the first database management system responsive to recovery of the inconsistent data and restoring full lock granting protocols throughout the shared system environment, wherein ~~means for allowing the another computer system to restart the at least one computer system further comprises:~~

~~means for providing a request to restart the at least one computer system;~~

~~means for allowing the another computer system to detect the request; and~~

~~means for allowing the another computer system to restart the at least one computer system based on the request using only the shared processor resources that are determined to be necessary for recovering the data.~~

12. (Currently Amended) The system of claim 24, wherein the plurality of data locks comprise a plurality of data update mode locks.

13. (Cancelled)

14. (Currently Amended) The computer readable medium of claim 25, wherein ~~instruction b)~~ further comprises ~~allowing another system of the plurality of systems to retain the plurality of locks held by the at least one system~~ the predefined plurality of processor resources does not include a processor resource utilized to enable the first database management system to accept new work.

15. (Currently Amended) The computer readable medium of claim 25, wherein the plurality of operating systems sharing processor resources are logically grouped together and operate in tandem with one another, ~~instruction e) further comprises:~~

e1) ~~allowing the another system of the plurality of systems to restart the at least one system;~~

e2) ~~recovering the data being protected by the retained locks held by the at least one system using only the shared processor resources that are determined to be necessary for recovering the data; and~~

e3) ~~allowing the another system to terminate the at least one system in a normal fashion after recovering the data;~~

16. (Cancelled)

17. (Currently Amended) The computer readable medium of claim ~~[[15]]~~ 25, further comprising program instructions for shutting down the first database management system responsive to recovery of the inconsistent data and restoring full lock granting protocols

throughout the shared system environment, wherein instruction e1) further comprises:

- e1i) — providing a request to restart the at least one system;
- e1ii) — allowing the another system to detect the request; and
- e1iii) — allowing the another system to restart the at least one system based on the request  
using only the shared processor resources determined to be necessary for recovery the data.

18. (Currently Amended) The computer readable medium of claim 25, wherein the plurality of data locks comprise a plurality of data update mode locks.

19–22. (Cancelled)

23. (Currently Amended) A method for recovering retained locks in a shared system environment having a plurality of computer operating systems sharing processor resources, in which each operating system is running a corresponding database management system (DBMS), the method comprising:

- (a) determining that at least one computer system of the plurality of computer systems a first database management system associated with a first operating system has failed, the first operating system being of the plurality of operating systems;
- (b) retaining within a second operating system a plurality of data locks held by the failed first database management system in response to the failure, the plurality of data locks being held by the second operating system to prevent other database management systems in the shared system environment from accessing inconsistent data associated with each of the plurality of data locks, the second operating system being of the plurality of operating systems; and
- (c) performing a restart operation on the failed restarting the first database management

system on the second operating system to free the recover the inconsistent data, including bringing to consistency the inconsistent data associated with each of the plurality of retained data locks, the second operating system using only shared a predefined plurality of the processor resources determined to be that are necessary for performing the to restart operation the first database management system and recover the inconsistent data.

24. (Currently Amended) A system for recovering retained locks in a shared system environment having a plurality of computer operating systems sharing processor resources, in which each operating system is running a corresponding database management system (DBMS), the system comprising:

means for determining that at least one computer system of the plurality of computer systems a first database management system associated with a first operating system has failed, the first operating system being of the plurality of operating systems;

means for retaining within a second operating system a plurality of data locks held by the failed first database management system in response to the failure, the plurality of data locks being held by the second operating system to prevent other database management systems in the shared system environment from accessing inconsistent data associated with each of the plurality of data locks, the second operating system being of the plurality of operating systems; and

means for performing a restart operation on the failed restarting the first database management system on the second operating system to free the recover the inconsistent data, including bringing to consistency the inconsistent data associated with each of the plurality of retained data locks, the second operating system using only shared a predefined plurality of the processor resources determined to be that are necessary for performing the to restart operation the first database management system and recover the inconsistent data.

25. (Currently Amended) A computer readable medium with program instructions tangibly stored thereon for recovering retained locks in a shared system environment having a plurality of computer operating systems sharing processor resources, in which each operating system is running a corresponding database management system (DBMS), the computer readable medium comprising program instructions for:

(a) determining that at least one computer system of the plurality of computer systems a first database management system associated with a first operating system has failed, the first operating system being of the plurality of operating systems;

(b) retaining within a second operating system a plurality of data locks held by the failed first database management system in response to the failure, the plurality of data locks being held by the second operating system to prevent other database management systems in the shared system environment from accessing inconsistent data associated with each of the plurality of data locks, the second operating system being of the plurality of operating systems; and

(c) performing a restart operation on the failed restarting the first database management system on the second operating system to free the recover the inconsistent data, including bringing to consistency the inconsistent data associated with each of the plurality of retained data locks using only shared a predefined plurality of the processor resources determined to be necessary for performing the to restart operation the first database management system and recover the inconsistent data.

26-28. (Cancelled)